



PATENT ABSTRACTS OF JAPAN

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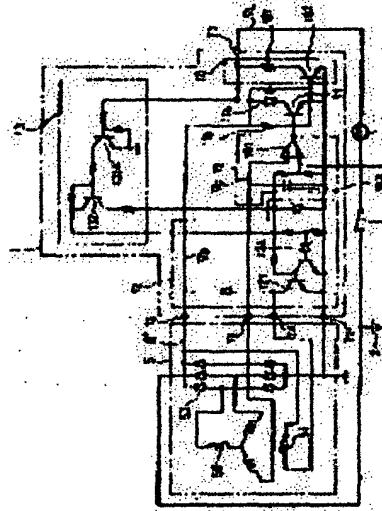
(21)Application number : 59-167216 (71)Applicant : NIPPON DENSO CO LTD
 (22)Date of filing : 08.08.1984 (72)Inventor : SADA TAKESHI
 MAYUMI NOBUO
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 SHIBATA KOJI
 MORI KAZUMASA

(54) SWITCH CLOSURE DETECTOR CIRCUIT

(57)Abstract:

PURPOSE: To accurately detect the closure of a switch by detecting the closure of a switch by a voltage applied to a transistor.

CONSTITUTION: When a key switch 3 is closed, the voltage of an external terminal T3 becomes a voltage decided by the divided voltage of a charge lamp 4 and a leakage compensating resistor 151. Transistors 131a, 132 are turned ON by the voltage, and a current is supplied to a generating voltage controller 12 and a generation detector 19. When an engine starts so that the voltage at a terminal T5 becomes higher than a reference voltage Vref, the output of a comparator 191 becomes L, transistors 11, 182 become OFF, a charge lamp 4 is turned OFF, and the current flowed to a resistor 181 for compensating the leakage is interrupted.



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(21)Application number : 50-144017

(71)Applicant : HITACHI LTD

(22)Date of filing : 05.12.1975

(72)Inventor : NAOI KEIGO
KOIKE HIROSHI

(54) CONTROL APPARATUS FOR AC GENERATOR FOR VEHICLE

(57)Abstract:

PURPOSE: To simplify the circuit construction by constructing that one end of the field coil is connected with the output terminal of the three phase fullwave rectifier directly connected with the output terminal of the generator.

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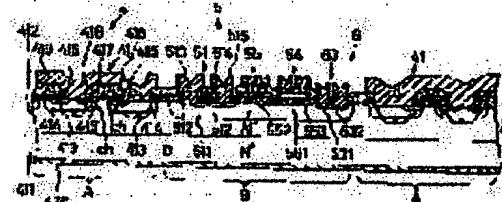
(21)Application number : 08-096072 (71)Applicant : DENSO CORP.
(22)Date of filing : 25.03.1996 (72)Inventor : KATO TAKETOSHI
MAEHARA FUYUKI
SHIBATA KOJI
MORI KAZUMASA

(54) VOLTAGE REGULATOR FOR VEHICLE CHARGING GENERATOR

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a voltage regulator for vehicle charging generator employing an MOSFET in a switching circuit for turning the rotor coil on/off in which high response to instantaneous output overvoltage or the like is attained while ensuring sufficient reliability for being employed in a vehicle susceptible to EMI.

SOLUTION: A switching circuit 4, a switching drive circuit 6 for imparting a driving signal thereto, and a protective circuit 5 for controlling the switching circuit 4 preferentially at the time of abnormality are formed, in multilayer structure, on a single semiconductor chip 9 while sharing an N-type epitaxial layer 412 such that the switching circuit 4 surrounds the switching drive circuit 6 and the protective circuit 5. This structure shortens the interconnection of each circuit significantly to provide high response and high reliability against noise.



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